

## Detailed CV of Professor Gerasimos Lyberatos



**A. Born:** October 5, 1958 (Athens, Greece)

**B. Marital status:** Married (to Maria Xygki),  
Four children (Christina, Anna, Kosmas, Vassilis)

<b>C. Address:</b> <u>Office</u>	<u>Home</u>
School of Chemical Engineering	Eptanisou 4a
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**D. Main position:**  
Professor of Chemical Engineering,  
National Technical University of Athens, Greece

**E. Other functions:**

- Collaborating Faculty Member of Institute of Chemical Engineering and High Temperature Chemical Processes, Foundation of Research and Technology Hellas
- Editor, Journal of Hazardous Materials (ELSEVIER)
- Associate Editor, Waste and Biomass Valorization (SPRINGER)
- Associate Editor, GNEST Journal
- Founder and v.President, Hellenic Water Association
- City Council Chairman, Municipality of Halandri (special mandate on waste recycling)

## **F. Education:**

- Lycaeum: Athens College, grad. June 1977
- Bachelor of Science in Chemical Engineering, Massachusetts Institute of Technology, USA, June 1980  
Thesis: "On the Temperature Dependence of the Limestone Desulfurization Reaction Rate"
- Masters of Science in Chemical Engineering, California Institute of Technology, USA, June, 1982
- PhD in Chemical engineering, California Institute of Technology, USA, June 1984  
PhD thesis title : "*Dynamic and Steady-State Bifurcation for Modeling Chemical Reaction Systems*", Supervisor: Prof. James E. Bailey

## **G. Past positions:**

- 2005-2017, Coordinator and Instructor of the "Solid Waste Management" unit of the Graduate programme «Waste management», Hellenic Open University
- Sep.1993-July 2011, Professor of Chemical Engineering, University of Patras
- Sep.1999 – Aug.2003 Chairman of Chemical Engineering Department, U. of Patras
- Sep.1994-Aug.1997, Vice Rector of University of Patras
- July 1990-Sep.1993, Associate Professor, University of Patras
- Aug. 1988-June1990 , Assoc. Professor (tenured), University of Florida
- Dec. 1983-Aug. 1988, Assistant Professor, University of Florida
- 1981-1982, Teaching Assistant, California Institute of Technology

## **H. Foreign languages:**

- English (perfectly)
- French (well)
- German (well)
- Spanish (intermediate level)
- Italian (some)

## **I. Distinctions:**

- Presidential Young Investigator Award (National Science Foundation), 1986
- 1987 "Teacher of the Year Award", AIChE Student Chapter, U. Florida
- "Tau Beta Pi Teacher of the Year" , College of Engineering,U. Florida

**J. Member of:**

- International Water Association
- International Solid Waste Association
- Hellenic Water Association
- Athens Agricultural Academy
- Technical Chamber of Greece
- Panhellenic Association of Chemical Engineers
- Hellenic Society for Waste Management
- Hellenic Society of Biotechnology
- Microbiokosmos

**K. Research funding:** 54 national and international projects

**L. Publication record (2020)**

- 213 publications in international refereed Journals
- 355 presentations in scientific conferences
- 13 chapters in books
- 4 books

H index SCOPUS : 46  
SCOPUS citations: 7410

## M. Publications in International Refereed Journals

1. Abulesz, E.M. and Lyberatos, G., "Novel Approach for Determining Optimal Regimen for Cancer Chemotherapy," *Int. J. Systems Science*, v. 19, pp. 1483-1497, (1988).
2. Abulesz, E.M. and Lyberatos, G., "Periodic Impulse Forcing of Nonlinear Systems: a New Method," *International Journal of Control*, 48, pp. 469-480, (1988).
3. Abulesz, E.M. and Lyberatos, G., "Periodic Operation of a Continuous Culture of Baker's Yeast," *Biotechnology and Bioengineering*, v. 34, 741-749, (1989).
4. Abulesz, E.M. and Lyberatos, G., "Periodic Optimization of Microbial Growth Processes," *Biotechnology and Bioengineering*, 29, pp. 1059-1065, (1987).
5. Aggelis G., Ehaliotis C., Nerud F., Stoychef I., Lyberatos G., Zervakis G.I., "Evaluation of white-rot fungi for detoxification and decolorization of effluents from the green olive debittering process", *Applied Microbiology and Biotechnology*, 59, 353-360, (2002)
6. Aggelis G., Gavala H.N. and Lyberatos G., "Combined and separate aerobic and anaerobic biotreatment of green olive debittering wastewater", *Journal of Agricultural Engineering Research*, 80, 3, 283-292, (2001)
7. Alexandropoulou, M., Antonopoulou, G., Lyberatos, G., "A novel approach of modeling continuous dark hydrogen fermentation", *Bioresource Technology*, 250, pp. 784-792, (2018)
8. Alexandropoulou M., Antonopoulou G., Ntaikou I., Lyberatos G., "Fungal pretreatment of willow sawdust with *Abortiporus biennis* for anaerobic digestion: Impact of an external nitrogen source», *Sustainability*, 9 (1), 130, (2017)
9. Alexandropoulou M, Antonopoulou G., Ntaikou I and Lyberatos G. "Using *Leiotrametes menziesii* and *Abortiporus biennis* for biological pretreatment of willow sawdust for enhancing biogas production". *Journal of Environmental Management* Volume 203, Part 2, 1, Pages 704-713 (2017)
10. Alexandropoulou M., Antonopoulou G., Trably E., Carrere H., Lyberatos G., "Continuous biohydrogen production from food industry wastes: Optimization of operational parameters and microbial community analysis", *Journal of Cleaner Production*, Volume 174, Pages 1054-1063, (2018)
11. Alexandropoulou M., Antonopoulou G. and Lyberatos G. "Food industry waste's exploitation via anaerobic digestion and fermentative hydrogen production in an up-flow column reactor". *Waste and Biomass Valorisation Journal*, 7(4), 711-723 (2016)
12. Alvarado-Morales, M., Gunnarsson, I.B., Fotidis, I.A., Vasilakou, E., Lyberatos, G., Angelidaki, I., "Laminaria digitata as a potential carbon source for succinic acid and bioenergy production in a biorefinery perspective", *Algal Research*, Volume 9, Pages 126–132, (2015)
13. Antoniou, P., Hamilton, J., Koopman, B., Jain, R., Holloway, B., Lyberatos, G. and Svoronos, S.A., "Effect of Temperature and pH on the Effective Maximum Specific Growth Rate of Nitrifying Bacteria," *Water Research*, v. 24, pp. 97-101,(1990).
14. Antonopoulou, G ; Vayenas, D ; Lyberatos, G, "Biogas Production from Physicochemically Pretreated Grass Lawn Waste: Comparison of Different Process Schemes", *MOLECULES*, 25, 2, (2020)
15. Antonopoulou, G ; Ntaikou, I ; Bebelis, S ; Lyberatos, G , "On the evaluation of filtered and pretreated cheese whey as an electron donor in a single chamber microbial fuel cell", *BIOMASS CONVERSION AND BIOREFINERY*, In press, (2020)

16. Antonopoulou, G ; Alexandropoulou, M ; Ntaikou, I ; Lyberatos, G, "From waste to fuel: Energy recovery from household food waste via its bioconversion to energy carriers based on microbiological processes", *SCIENCE OF THE TOTAL ENVIRONMENT*, 732, 139230. 10.1016/j.scitotenv.2020.139230, (2020)
17. Antonopoulou I., Kampranis A., Ntaikou I., Lyberatos G., "*Enhancement of liquid and gaseous biofuels production from Agro-Industrial Residues after Thermochemical and Enzymatic Pretreatment, Frontiers in Sustainable Food Systems*", doi 10.3389/fsufs.2019.00092, (2019)
18. Antonopoulou G., Ntaikou I., Pastore C., di Bitonto L., Bebelis S., Lyberatos G., "*An overall perspective for the energetic valorization of household food waste using microbial fuel cell technology of its extract, coupled with anaerobic digestion of the solid residue*", *Applied Energy*, v.242, 1064-1073, (2019)
19. Antonopoulou G. and Lyberatos G, "*Effect of Pretreatment of Sweet Sorghum Biomass on Methane Generation*", *Waste Biomass Valor* v.4, p.p. 583–591, (2013)
20. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "*Effect of substrate concentration on fermentative hydrogen production from sweet sorghum extract*", *International Journal of Hydrogen Energy*, v.36, 8, p.p.4843-4851, (2011)
21. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "*Modelling of fermentative hydrogen production from sweet sorghum extract based on modified ADMI*", *International Journal of Hydrogen Energy*, 37,1, 191-208, (2012)
22. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "*ADMI-based modeling of methane production from acidified sweet sorghum extract in a two stage process*", *Bioresource Technology*, , 106, 10-19, (2012)
23. Antonopoulou G., Gavala H., Skiadas I.V., K. Agelopoulos and Lyberatos G., "*Biofuels generation from sweet sorghum: fermentative hydrogen production and anaerobic digestion of the remaining biomass*", *Bioresource Technology* 99 110–119, (2008)
24. Antonopoulou G., Ntaikou I., Gavala H.N., Skiadas I.V., Angelopoulos K., Lyberatos G. "*Biohydrogen production from sweet sorghum biomass using mixed acidogenic cultures and pure cultures of Ruminococcus Albus*", *Global NEST*, Vol.9 Issue: 2 Pages: 144-151 (2007)
25. Antonopoulou G., Stamatelatos K., Lyberatos G. "*Exploitation of rapeseed and sunflower residues for methane generation: the effect of pretreatment*", *Chemical Engineering Transactions*, v.20, 253-258, (2010)
26. Antonopoulou G., Stamatelatos K., Venetsaneas N., Kornaros M., and G. Lyberatos, "*Biohydrogen and Methane Production from Cheese Whey in a Two-Stage Anaerobic Process*", *Ind. Eng. Chem. Res.* 2008, 47, 5227–5233, (2008)
27. Antonopoulou, G., Gavala, H.N., Skiadas, I.V., Lyberatos, G. "*Influence of pH on fermentative hydrogen production from sweet sorghum extract* ",*International Journal of Hydrogen Energy*, 35(5), pp.1921-1928, (2010)
28. Antonopoulou, G., Stamatelatos, K., Bebelis, S., Lyberatos, G. "*Electricity generation from synthetic substrates and cheese whey using a two chamber microbial fuel cell*", *Biochemical Engineering Journal*, 50 (1),p.p.10-15 (2010)
29. Antonopoulou, G., Dimitrellos, G., Beobide, A.S., Vayenas, D., Lyberatos, G., "*Chemical Pretreatment of Sunflower Straw Biomass: The Effect on Chemical Composition and Structural Changes*", *Waste and Biomass Valorization*, Volume 6, Issue 5, pp 733-746, (2015)
30. Antonopoulou, G., Gavala, H.N., Skiadas, I.V., Lyberatos, G., "*The Effect of Aqueous Ammonia Soaking Pretreatment on Methane Generation Using Different*

- Lignocellulosic Biomasses*”, Waste and Biomass Valorization, Volume 6, Issue 3, pp 281-291, (2015)
31. Antonopoulou, G., Alexandropoulou, M., Lytras, C., Lyberatos, G., “*Modeling of Anaerobic Digestion of Food Industry Wastes in Different Bioreactor Types*”, Waste and Biomass Valorization, Volume 6, Issue 3, pp 335-341, (2015)
  32. Antonopoulou G., Vayenas D. and Lyberatos G. “*Ethanol and hydrogen production from sunflower straw: The effect of pretreatment on the whole slurry fermentation*”. Biochemical Engineering Journal. Biochemical Engineering Journal, 116, pp. 65-74, (2016)
  33. Bampalioutas, K., Vlysidis, A., Lyberatos, G., Vlyssides, A, “*Detoxification and methane production kinetics from three-phase olive mill wastewater using Fenton's reagent followed by anaerobic digestion*”, *Journal of Chemical Technology and Biotechnology*”, v.94, 1, 265-275 (2019)
  34. Ben Atitallah, I ; Ntaikou, I ; Antonopoulou, G ; Alexandropoulou, M ; Brysch-Herzberg, M ; Nasri, M ; Lyberatos, G ; Mechichi, T, «*Evaluation of the non-conventional yeast strain Wickerhamomyces anomalus (Pichia anomala) X19 for enhanced bioethanol production using date palm sap as renewable feedstock*”, RENEWABLE ENERGY, 154, 71-81, (2020)
  35. Ben Atitallah I., Antonopoulou G., Ntaikou I., Alexandropoulou M., Nasri M., Mechichi T., Lyberatos G., “*On the evaluation of different saccharification schemes for enhanced bioethanol production from potato peels waste via a newly isolated yeast strain of Wickerhamomyces anomalus*”, Bioresource Technology, 289, 121614, (2019)
  36. Blika P., Stamatelatou K., Kornaros M. and Lyberatos G., “*Anaerobic digestion of olive mill wastewater*”, Global NEST Journal, Vol.11,p.p.364-372, (2009)
  37. Bolzonella D., Battista F., Cavinato C., Gottardo M., Micolucci F., Lyberatos G., Pavan P., “*Recent developments in biohythane production from household food wastes: A review*”, Bioresource Technology, 257, 311-319, (2018)
  38. Bournazou, M.N.C., Hooshiar, K., Arellano-Garcia, H., Wozny, G., Lyberatos, G., «*Model based optimization of the intermittent aeration profile for SBRs under partial nitrification*», Water Research 47 (10) , pp. 3399-3410, (2013)
  39. Carrere H., Antonopoulou G., Affes R., Passos F., Battimelli A., Lyberatos G., Ferrer I., “*Review of feedstock pretreatment strategies for improved anaerobic digestion: From lab-scale research to full-scale application*”, Bioresource Technology, 199: 386-397, (2016)
  40. Chatzikonstantinou D., Tremouli A., Papadopoulou K., Kanellos G., Lampropoulos I., Lyberatos G. “*Bioelectricity production from fermentable household waste in a dual-chamber microbial fuel cell*», Waste Management and Research, 36,11, 1037-1042, (2018)
  41. Chynoweth,D.P., Svoronos S.A., Lyberatos G., Harmon J.L., Pullammanappallil P., Owens J.M. amd Peck M., “*Real-time Expert System Control of Anaerobic Digestion*”, Water Science and Technology, 30, pp21-29,(1994)
  42. Cruz Bournazou, M.N., Hooshiar, K., Arellano-Garcia, H., Lyberatos, G., Kravaris, C., Wozny, G., “*Optimization of a Sequencing Batch Reactor process for waste water treatment using a two step nitrification model*” Computer Aided Chemical Engineering, 29 , pp. 1291-1295, (2011)
  43. Cruz Bournazou, M.N., Arellano-Garcia, H., Wozny, G., Lyberatos, G., Kravaris, C. «*ASM3 extended for two-step nitrification-denitrification: A model reduction for sequencing batch reactors*», Journal of Chemical Technology and Biotechnology, 87,7, 887-986, (2012)

44. di Bitonto L., Antonopoulou G., Braguglia C., Campanale C., Gallipoli A., Lyberatos G., Ntaikou I., Pastore, C., «*Lewis-Bronsted acid catalysed ethanolysis of the organic fraction of municipal solid waste for efficient production of biofuels*», *Bioresource Technology*, 266, 297-305, (2018)
45. Dimitrakos- Michalakos, G., Martinez-Nieva, J., Vayenas, D. and Lyberatos, G., "*Removal of Iron from Potable Water Using a Trickling Filter*", *Water Research*, 31, pp.991-996, (1997)
46. Dimitrellos, G.; Lyberatos, G.; Antonopoulou G., "*Does Acid Addition Improve Liquid Hot Water Pretreatment of Lignocellulosic Biomass towards Biohydrogen and Biogas Production?*", *SUSTAINABILITY*, 12, 21, (2020)
47. Dokianakis S. N., Fountoulakis M. S., Kornaros M. and G. Lyberatos "*Biological Treatment of Sewage from Ships in a Sequencing Batch Reactor*", *Fresenius Environmental Bulletin*, Volume: 16 Issue: 12A Pages: 1608-1615 Published: 2007
48. Dokianakis S.N. , Kornaros M. and G. Lyberatos, "*Impact of five selected xenobiotics on isolated ammonium oxidizers and on nitrifying activated sludge*", *Environmental Toxicology*, v. 21, 4, pp.310-316 , (2006)
49. Dokianakis S.N., Kornaros M. and G. Lyberatos, "*Effect of wall growth on the kinetic modelling of nitrite oxidation in a CSTR*", *Biotechnology and Bioengineering*, 93 (4), pp. 718-726 (2006)
50. Dokianakis, S.N., Kornaros, M.E., G. Lyberatos, "*On the effect of pharmaceuticals on bacterial nitrite oxidation*", *Water Science and Technology*, Volume 50, Issue 5, Pages 341-346, (2004)
51. Dounavis, A.S., Ntaikou, I., Lyberatos, G., "*Production of biohydrogen from crude glycerol in an upflow column bioreactor*", *Bioresource Technology*, Volume 198, , Pages 701–708, (2015)
52. Dounavis A.S., Ntaikou I., Kamilari M., Lyberatos G "*Production of Bio-Based Hydrogen Enriched Methane from Waste Glycerol in a Two Stage Continuous System*" *Waste and Biomass Valorization*, 7 (4) 677-689 (2016)
53. Drillia P. , Stamatelatou K. and Lyberatos G. , "*Fate and mobility of pharmaceuticals in solid matrices*", *Chemosphere*, 60,8,pages 1034-1044, (2005)
54. Drillia P., Kornaros M., and Lyberatos G. "*Wastewater Treatment from a Motor-Oil Reforming Company Using a Sequencing Batch Reactor (SBR)*", *Water Science & Technology* Vol 47 No 10 pp 25–32 ,(2003)
55. Drillia P., S.N.Dokianakis, M.S.Fountoulakis, M.Kornaros, K.Stamatelatou and G. Lyberatos , "*On the occasional biodegradation of pharmaceuticals in the activated sludge process: the example of the antibiotic sulphamethoxazole*", *Journal of Hazardous Materials*, 122, 259-265,(2005)
56. Fountoulakis M., Drillia P., Pakou C., Kampioti A, Stamatelatou K. and Lyberatos G., "*Analysis of Nonylphenol and Nonylphenol Ethoxylates in sewage sludge by HPLC following Microwave-Assisted Extraction*", *Journal of Chromatography A*, V.1089, Issues 1-2, pp.45-51,(2005)
57. Fountoulakis M.S., Dokianakis S.N., Kornaros M.E., Aggelis G.G. and Lyberatos G. "*Removal of phenolics in olive mill wastewaters using the white rot fungus Pleurotus Ostreatus*", *Water Research*, 36 (19), 4735-4744, (2002)
58. Fountoulakis MS, Stamatelatou K, Batstone DJ, Lyberatos G., "*Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge*", *Water Science and Technology*, v. 54, 4, pp. 119-128, (2006)

59. Fountoulakis, M., Drilla, P., Stamatelatou, K. and G Lyberatos., “*Toxic effect of pharmaceuticals on methanogenesis*”, *Water Science and Technology*, v.50, 5, pp.335-340, (2004)
60. Fountoulakis, M.S., Stamatelatou, K., Lyberatos, G. “*The effect of pharmaceuticals on the kinetics of methanogenesis and acetogenesis*”, *Bioresource Technology* 99 (15), pp. 7083-7090, (2008)
61. Galanopoulos, C., Sazakli, E., Leotsinidis, M., Lyberatos, G., «*A pilot-scale study for modeling a free water surface constructed wetlands wastewater treatment system*», 2013, *Journal of Environmental Chemical Engineering*, 1 (4) , pp. 642-651, (2013)
62. Galanopoulos C., Lyberatos G. "*Dynamic modelling and design of free water surface constructed wetland systems*" *Global Nest Journal*. 18 (2), 321-321 (2016)
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64. Gavala HN, Skiadas IV, Ahring BK, and G.Lyberatos, “*Thermophilic anaerobic fermentation of olive pulp for hydrogen and methane production: modelling of the anaerobic digestion process*”, *Water Science and Technology* 53 (8), pp.271-279 (2006)
65. Gavala, H.N. and Lyberatos G., “*Influence of anaerobic culture acclimation on the degradation kinetics of various substrates*”, *Biotechnology and Bioengineering*, 74, 3, 181-195, (2001)
66. Gavala, H.N., Skiadas, I.V. and G.Lyberatos, “*On the Performance of a centralized Digestion Facility Receiving Seasonal Agroindustrial Wastewaters*”, *Water Science and Technology*, v.40, No 1, 339-346, (1999)
67. Gavala,H.N., Kopsinis,H., Skiadas,I.V., Stamatelatou K. and Lyberatos G., “*Treatment of Dairy Wastewater Using an Upflow Anaerobic Sludge Blanket Reactor*”, *Journal of Agricultural Engineering Research*, v.73, pp.59-63, (1999)
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70. Georgiopoulou, M., Lyberatos, G., “*Life cycle assessment of the use of alternative fuels in cement kilns: A case study*”, *Journal of Environmental Management*, 216, SI224-234, (2018)
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72. Gouzinis,A., Kosmidis,N., Vayenas,D. and Lyberatos G., «*Removal of Mn and Simultaneous Removal of NH<sub>3</sub>, Fe, and Mn from Potable Water Using a Trickling Filter*», *Water Research*, 32,8,pp.2442-2450 (1998)
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81. Karafyllis I., Kravaris C., Syrou L. and Lyberatos G. "*A Vector Lyapunov Function Characterization of Input-to-State Stability with Application to Robust Global Stabilization of the Chemostat*", European Journal of Control, 1:47-61 (2008)
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86. Kornaros M, Lyberatos G, "*Biological treatment of wastewaters from a dye manufacturing company using a trickling filter*", Journal of Hazardous Materials, v.136, 1, pp. 95-102 (2006)
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## **N. Conference participations**

### **A. International Conferences**

1. Abulesz, E.M., Lyberatos, G., "*Periodic Operation of Continuous Cultures*," 196th ACS National Meeting, Los Angeles, CA, Sept. (1988).
2. Alexandropoulou M, Papadopoulou K, Antonopoulou G., Lyberatos G., "*Hydrothermal Pretreatment Optimization for Enhanced Anaerobic Digestion of Willow Sawdust*", 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, (2019)
3. Alexandropoulou M., Antonopoulou G., Lyberatos G., "*Hydrogen and methane production from food-industry wastes*", 13th World Congress on Anaerobic Digestion, Santiago de Compostela ,Spain, June 25-28, (2013)
4. Alexandropoulou,M., Antonopoulou G., Lyberatos G., "*Biofuels production from food wastes*", 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7), Corfu, 27 April – 1May (2012)
5. Alexandropoulou M., Antonopoulou G. and Lyberatos G., "*Fermentative hydrogen production from food industry wastes in a CSTR-type reactor: The influence of Hydraulic Retention Time*", International Conference on Industrial Waste & Wastewater Treatment & Valorisation, Athens, 21-23 May (2015)
6. Alexandropoulou M., Antonopoulou G., Ntaikou I. and Lyberatos G., "*Using *Leiotrametes menziesii* and *Abortiporus biennis* for biological pretreatment of willow sawdust for enhancing biogas production*", 3rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece, 2-4 July (2015)
7. Alexandropoulou M., Antonopoulou G. and G. Lyberatos,"*ADM1-based modeling of a continuous anaerobic digester for biogas production from food industry waste(water)s*", IWA Regional Symposium on Water, Wastewater and Environment: Tradition and Culture. 22-24 March 2014, Patras, Greece, (2014)
8. Alexandropoulou M., Antonopoulou G. and Lyberatos G., "*Fermentative hydrogen production from food-industry wastes*", 13th International Conference on Environmental Science and Technology, Athens, Greece, September 5-7,(2013)
9. Alexandropoulou M., Lytras C., Antonopoulou G. and G. Lyberatos, "*Modeling of anaerobic digestion of starchy food wastes in different bioreactor types*", 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio De Janeiro, Brazil, August 25-19, (2014) I.V.
10. Alexandropoulou M., Menis N., Antonopoulou G., Ntaikou I., Lyberatos G., "*From waste to fuel: bioconversion of domestic food wastes to energy carriers*", 5th International Conference on Sustainable Solid Waste Management, Athens, Greece, (2017)
11. Aliferis A. , Antonopoulou G. , Ntaikou I. , Alexandropoulou M. , Vayenas D and Lyberatos G., "Assessment of electrocoagulation as a pretreatment method of olive mill wastewater for biofuels production in a biorefinery concept", INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece,(2019)
12. Aliferis A., G. Antonopoulou, M. Alexandropoulou, I. Ntaikou, D. Vayenas and G. Lyberatos, "Electrocoagulation: An efficient pretreatment method for biofuels

- production from olive mill wastewater”, 6<sup>th</sup> International Conference on Industrial and Hazardous Waste Management. 3-5 September 2018, Chania Crete, Greece, (2018)
13. Andreozzi R., Battilotti M., Campanella L., Caprio V., Ferrari B., Garric J., Lyberatos G., Marotta R., Paxeus N., Pinto G., and A.Pollio, “*Ecotoxicological Assessments and Removal Technologies for Pharmaceuticals in Wastewaters* SETAC Europe 12<sup>th</sup> Annual Meeting, Vienna, Austria, May 12-16, (2002)
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  16. Antonopoulou G., I. Ntaikou, M. Alexandropoulou, S. Bebelis, G. Lyberatos, “*Using cheese manufacturing wastes in a single chamber Microbial Fuel Cell*”, 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, June 26-29 (2019)
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  18. Antonopoulou G., I. Ntaikou, M. Alexandropoulou, A. Tremouli, C. Pastore., L. di Bitonto, S. Bebelis, G. Lyberatos, «*Using household food waste as a source of energy in a single-chamber microbial fuel cell*», 6<sup>th</sup> International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece. , (2018)
  19. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, “*Different physicochemical pretreatment methods on lignocellulosic biomass: the effect on biochemical methane potential*”, 14th International Conference on the Environmental Science and Technology (CEST2015), Rhodes, Greece, 3-5 September (2015)
  20. Antonopoulou G., Gavala H.N., Skiadas I.V. and Lyberatos G., «*Does aqueous ammonia soaking pretreatment influence the fermentative processes of bioethanol and biohydrogen production from different lignocellulosic feedstocks?*», 3rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece, 2-4 July (2015)
  21. Antonopoulou G., Dimitrellos G., Vayenas D., Lyberatos G., “The effect of acid pretreatment on bio-ethanol and bio-hydrogen production from sunflower straws”, 2nd International Conference on Sustainable Solid Waste Management, Athens, 12th–14th June (2014)
  22. Antonopoulou G., Jonuzaj S., Gavala H.N., Skiadas I.V. and G. Lyberatos, “*The effect of aqueous ammonia soaking pretreatment on methane generation using different lignocellulosic feedstocks*’ 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio De Janeiro, Brazil, August 25-18 (2014)
  23. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, “*The effect of physicochemical pretreatment on the anaerobic digestion of poplar biomass*”, 12th

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26. Antonopoulou G, Stamatelatu K, Bebelis S, Lyberatos G: "*Using cheese whey as a source of energy in a microbial fuel cell*", In CEST2009: A-40-47, Chania, (Sep 2009)

27. Antonopoulou, H. N. Gavala, I. V. Skiadas, G. Lyberatos, "*Sweet sorghum biomass fermentation: modeling of hydrogen and methane production based on ADMI*", European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September (2007)

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60. Dazea D. Antonopoulou G. , Alexandropoulou M., Ben Atitallah I., Mechichi T. , Ntaikou I. and Lyberatos G., "*Second generation of bioethanol production from*

*household food wastes via a newly isolated yeast strain of Wickerhamomyces anomalus*", INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece,(2019)

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9. Stamatelatou K., Pakou C., Lyberatos G., "Occurrence, Toxicity, and Biodegradation of Selected Emerging Priority Pollutants in Municipal Sewage Sludge, in Comprehensive Biotechnology (Second Edition),ELSEVIER, V. 6, pp. 473-484, (2011)
10. Stamatelatou K., Blika P., Ntaikou I. and Lyberatos G, "Integrated Management Methods for the Treatment and/or Valorization of Olive Mill Wastes", in "Novel Technologies in Food Science, Integrating Food Science and Engineering Knowledge Into the Food Chain 7", McElhatton and P.J.A. Sobral (eds.), Springer NL, pp.65-118, (2011)
11. Giovana Tommaso , Rogers Ribeiro , Carlos Augusto Fernandes de Oliveira ,Katerina Stamatelatou , Georgia Antonopoulou , Gerasimos Lyberatos ,Cecilia Hodúr , and József Csanádi, Clean Strategies for the Management of Residues in Dairy Industries, A. McElhatton and P.J.A. Sobral (eds.), Novel Technologies in Food Science, Integrating Food Science and Engineering Knowledge Into the Food Chain 7, Springer NL, pp.381-411, (2011)
12. E. Uckun Kiran, K. Stamatelatou, G. Antonopoulou and G. Lyberatos. 2016 Production of biogas via anaerobic digestion - In: Handbook of biofuels production. Processes and Technologies (Second edition). R. Luque, CSK Lin, K. Wilson and J. Clark (Eds) Woodhead Publishing Series in Energy N 98. ISBN 978-0-08100455-5 (print), 978-0-08100456-2 (online), pages: 259-291
13. Carrère, H., Antonopoulou, G., Druilhe, C., Latrille, E., Lyberatos, G., Jimenez, J., Ntaikou, I., Papadopoulou, K., Trably, E., Trémier, A. Methods to assess biological transformation of biomass, Handbook on Characterization of Biomass, Biowaste and Related By-products, Springer International Publishing, Nzihou, A. (ed.) 978-03035020-8, 641-730, (2020)

#### **O. Books (in Greek)**

1. Introduction to Biochemical Engineering, Tziolas pbs, (2010)
2. Wastewater Management, Tziolas pbs, (2011)
3. Liquid Waste (municipal) Management, HOU pbs.(2003)
4. Liquid Waste (industrial) Management, HOU pbs.(2003)

## **P. Theses supervised:**

### **P1. PhD:**

1. O'Neil, D.G., "Dynamic Modelling of Continuous Microbial Growth Processes", 1988, U. Florida
2. Abulesz, E.M., "Periodic Optimization of Biological Systems", 1988, U. Florida
3. Stephens, M.L., "The Effect of Periodic Operation on Mixed and Recombinant Bacterial Populations", 1989, U. Florida
4. Harmon, J., "Adaptive Optimization of Continuous Microbial Growth Processes", 1990, U. Florida
5. Rodin, B., "Temporal Versus Spatial Separation of Growth and Lactate Production Phases for a Mutant Escherichia Coli Culture", 1992, U. Florida
6. Pullamanapallip, P., "Modelling and Control of the Anaerobic Digestion Process", 1992, U. Florida
7. Vayenas D., "Modeling of Nitrifying Trickling Filters", 1994, University of Patras
8. Kornaros M., "Modeling and Optimization of Denitrification Systems", 1995, University of Patras
9. Skiadas I., "The Periodic Anaerobic Baffled Reactor", 1998, U. of Patras
10. Zafiri C., "Modeling of Biological Phosphorus Removal", 1996, University of Patras
11. Liakou S., "Integrated Chemical and Biological Wastewater Treatment" 1998, U. of Patras
12. Gavala H., "Anaerobic Codigestion of Agroindustrial wastewaters", in process, 1998, U. of Patras
13. Zissi U., "Biodegradation of azo-dyes by pure and defined mixed microbial cultures", 1998, U. of Patras
14. Stamatelatu, K., "Optimization of anaerobic treatment processes", 1999, U. of Patras
15. Katsoyannis A., "Biological Nitrogen Removal and Adaptive Optimization of Nitrification in Sequencing Batch Reactors", 2001, U. of Patras
16. Agelis George, "Treatment of Edible Olive Processing Wastewater", 2001, U. of Patras
17. Marazioti Constantina, "Dynamics of Mixed Denitrifying Cultures", 2003, U. of Patras
18. Drillia Panagiota, "Fate of pharmaceuticals in soils, natural waters and wastewater treatment processes", 2005, U. of Patras
19. Fountoulakis, Michael, "Fate and Impact of xenobiotics on the anaerobic digestion of wastewaters and sludge", 2005, U. of Patras
20. Dokianakis Spyros, "Impact of Xenobiotic Compounds and dissolved oxygen on the nitrification process and optimization of nitrogen removal from municipal wastewaters", 2006 U. of Patras
21. Antonopoulou Georgia, "Development of an Integrated Process for the Production of Hydrogen and Biogas from a Sweet Sorghum Energy Crop", 2006, U. of Patras

22. Ntaikou Ioanna, “Production of Hydrogen from Synthetic Substrates and a Sweet Sorghum Energy Crop by a pure Culture of the fibrolytic bacterium Ruminococcus albus “, 2006 U.of Patras
23. Dravillas Constatinos, “Development of a two-stage system for the production of biogas from solid waste and biomass” , 2007, U.of Patras
24. Kalfas Haralambos, “Biogas production though the anaerobic digestion of pretreated and nonpretreated olive pulp”, 2007, U.of Patras
25. Georgiopoulou Martha, “ Development of Methods for the Selection of the Best Available Technology for Industrial Wastewater Treatment”, 2007, University of Patras
26. Vlahos Panagiotis, “Development of Alternative Processes for the Disinfection and Deodorisation of Natural Corks”, 2007, U.of Patras
27. Koutrouli Eleni, “Hydrogen production from olive pulp”, 2008, U. of Patras
28. Blika Paraskevi, “Biotechnological Methods for Olive-mill Wastewater Treatment”, 2009, U. of Patras
29. Pakou Constantina, «Fate of xenobiotics during sludge composting”, 2010, U. of Patras
30. Vlassis Theofilos, “Processes for energetic valorization of glycerol with production of biogas, biohydrogen and/or electricity using a microbial fuel cell”, 2011, U,of Patras
31. Venetsaneas Nikolaos, “Production of hydrogen and methane from cheese whey” , 2012, U. of Patras
32. Tremouli, Asimina, “Development of a Novel Microbial Fuel Cell Process for the energetic valorization of Liquid Wastes, 2013, U. of Patras
33. Galanopoulos Christos, “Optimization of natural wastewater treatment systems”, 2013, University of Patras
34. Dounavis Athanassios, “Biotechnological Production of Hydrogen and Methane from Crude Glycerol”, 2015, University of Patras
35. Michalopoulos Ioannis, Integrated valorization of organic solid wastes for the production of biogas in a pilot scale Periodic Anaerobic Baffled Reactor (PABR) and for the production of compost, 2017, National Technical University of Athens
36. Alexandropoulou Maria, “Production of gaseous biofuels from food industry wastes through biotechnological processes”, 2017, national Technical University of Athens
37. Lytras Georgios-Marios, “Two-phase biotechnological removal of hexavalent chromium”, 2018, National Technical University of Athens

**P2. Master’s:** 34 total

## **Q. Organization of International Conferences**

1. Engineering for Waste Valorization WasteEng08, Patras 3-5 June 2008
2. Protection and Restoration of the Environment 9, Cephalonia 29/6-3/7,2008
3. INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece

## **R. Organization of Greek Conferences**

1. 4<sup>th</sup> Panhellenic Scientific Chemical Engineering Conference , Patras, June, 2003
2. 7<sup>o</sup> Panhellenic Scientific Chemical Engineering Conference , Patras, June, 2009

## **S. Summer schools:**

1. Lyberatos G., *Microbial Fuel Cells*, 1st Training school, Energy recovery in anaerobic processes in wastewater and sludge processing, Silesian University of Technology, Gliwice, Poland, 24th-27th September 2013
2. Lyberatos G., *Hydrogen and biopolymer production* , 1st Training school, Energy recovery in anaerobic processes in wastewater and sludge processing, Silesian University of Technology, Gliwice, Poland, 24th-27th September 2013
3. Lyberatos G., *Science and Engineering of biowaste conversion pathways*, 1st SAHYOG Summer School, Athens, 9-16 June 2013
4. Lyberatos G., *Chemicals in electronic wastes. Impacts and technologies for recovery and safe disposal*, EWASTEU: Legal Regulations and Implementations on E-Waste in EU - Yasar University Izmir, Turkey 28 April-11 May 2013
5. Lyberatos G., "*Organic Wastes and Wastewaters as Sources of Materials and Energy*", WasteEng 2014, Rio di Janeiro Brazil (2014)
6. Lyberatos G., "Biohydrogen and biomethane and from agro-industrial wastewaters", Nicosia, Cyprus, October 29-31, (2014)

## **T. Teaching :**

### I. University of Florida:

#### Undergraduate:

1. ECH 3023 Introduction to Chemical Engineering
2. ECH 4404L Chemical Engineering Operations Laboratory
3. CAP 3210 Computer Model Formulation
4. ECH 4934 Professional Seminar
5. ECH 4524 Reactor Dynamics and Design
6. ECH 4504 Chemical Kinetics and Processing

#### Graduate:

1. ECH 5746 Biochemical Engineering Principles
2. ECH 3012 Elements of Chemical Engineering
3. ECH 6937 Graduate Thermodynamics
4. ECH 6926 Graduate Seminar
5. ECH 6126 Computer Control of Processes

### II. University of Patras:

#### Undergraduate:

1. Environmental Technology
2. Biochemical processes
3. Industrial wastewater treatment
4. Solid waste management
5. Biology

#### Graduate:

1. Wastewater Treatment
2. Bioprocesses
3. Process Control
4. Environmental Technology
5. Environmental biotechnology

### III. Hellenic Open University:

Solid Waste Management

### IV. National Technical University of Athens

1. Transport Phenomena I (Fluid mechanics)
2. Biochemical Engineering
3. Environmental engineering
4. Biotechnology and the Environment
5. Selection and Design of Mechanical process equipment
6. Energy from Biomass (Graduate course)

## **U. Administrative Service**

### University Florida

- *Department Service :*
  1. Seminar Coordinator, Spring 1987, Spring 1988
  2. Qualifying Examinations Committee
  3. Computer Departmental Committee
  4. Chairman Search Committee
  5. Faculty Search Committee
  6. Chairman of the proposal committee for 3 graduate students  
and member of the proposal committee for over 15 students
  7. Graduate Student Admissions
  
- *College Service :*

Engineering Library Committee
  
- *University Service :*
  1. Biotechnology "Task Force," Spring 1986-Spring 1987 Committee that formed the Interdisciplinary Center for Biotechnology Research
  2. Biotechnology Seminar Committee
  3. Patent Committee on Chemical Compounds, Compositions and Processes, 1987-1990

### University of Patras

1. Vice Rector for Financial Affairs, 1994-1997
2. Chairman of Chemical Engineering Department, 1999-2003

### National Technical University of Athens

Member of the Senate Committee for Undergraduate studies, 2014-today  
Chairman of the Undergraduate Curriculum Committee, 2014-2016